



IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Larry E. MAPLE

Confirmation No.: TBA

Application No.: 10/674,231

Examiner: To Be Assigned

Filing Date: 09-29-2003

Group Art Unit: TBA

Title: REDUCING BATTERY TERMINAL CONTACT RESISTANCE STEMMING FROM  
INSULATION CONTAMINANT LAYER ON SAME

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97 (c) together with either a:  
☐ Statement under 37 CFR 1.97(e), or  
☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:  
☐ Statement under 37 CFR 1.97(e)(1) or (2), and  
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).  
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

☒ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

- ☐ I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450. Date of Deposit: \_\_\_\_\_
- OR
- ☐ I hereby certify that this paper is being transmitted to the Patent and Trademark Office facsimile number \_\_\_\_\_ on \_\_\_\_\_
- Number of pages: \_\_\_\_\_

Typed Name:

Signature: \_\_\_\_\_

Respectfully submitted,

Larry E. MAPLE

By \_\_\_\_\_

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Attorney/Agent for Applicant(s)

Reg. No. **39,410**

Date: **July 29, 2004**

Telephone No.: **(703) 591-2664**

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

10970672-3

APPLICATION NO.

10/674,231

CONFIRMATION NO.

TBA

APPLICANT

Larry E. MAPLE

FILING DATE

09-29-2003

GROUP

TBA



## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A	4,008,356	Feb. 15, 1977	ASANO	
	1B	4,871,628	Oct. 3, 1989	PARKER	
	1C	5,692,919	Dec. 2, 1997	HASSENZAHN ET AL.	
	1D	5,486,432	Jan. 23, 1996	SHARRAH ET AL.	
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	1Q	Patent Abstracts of Japan. Vol. 2000, no. 19, 5 June 2001 & JP 2001 035473 A (TOSHIBA BATTERY CO LTD; TOSHIBA CORP), 9 February 2001.
	1R	European Search Report. EP Patent Application No. 02 25 2821. 24 May 2004.
	1S	

EXAMINER

DATE CONSIDERED